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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,658	12/28/2000	Henry Johnson	H0001540 (4960)	9392

7590 10/21/2002

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[REDACTED] EXAMINER

GRAYBILL, DAVID E

[REDACTED] ART UNIT

[REDACTED] PAPER NUMBER

2827

DATE MAILED: 10/21/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	JOHNSON, HENRY
Examiner David E Graybill	Art Unit 2827

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 24 July 2002.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-12 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-12 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). _____.
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____. 6) Other:

Art Unit: 2827

Claim 2 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim, or amend the claim to place the claim in proper dependent form, or rewrite the claim in independent form.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-7, 9, 10 and 12 are rejected under 35 U.S.C. 102(a) as being anticipated by applicant's admitted prior art.

In the specification, at page 3, line 15 to page 4, line 26, applicant admits that the following is prior art:

1. A sublamination material, comprising: a conductive single layer reference plane 12 having a top surface and a bottom surface; a conductive first signal layer 22 coupled to the top surface with a cured core material 30, the first signal layer having an exposed surface opposite a surface coupled to the reference plane; a conductive second signal layer 24 coupled to the bottom surface with a cured bond-ply material 30, the second

Art Unit: 2827

signal layer having an exposed surface opposite a surface coupled to the reference plane; and at least one of a blind via or a micro via 18; wherein the reference plane, first signal layer, and second signal layer are three separate layers.

2. The sublamination material of claim 1, wherein the reference plane comprises a conductive material.
3. The sublamination material of claim 2, wherein the conductive material is copper.
4. The sublamination material of claim 1, wherein the first signal layer comprises the same material as the second signal layer.
5. The sublamination material of claim 1, wherein the first signal layer is copper.
6. The sublamination material of claim 1, wherein the bond-ply material comprises the same material as the core material.
7. The sublamination material of claim 1, wherein the core material is a dielectric material.
9. The sublamination material of claim 1, wherein the second signal layer comprises copper.
10. The sublamination material of claim 1, wherein the bond-ply material is a dielectric material.
12. The sublamination material of claim 1, wherein the blind via is formed by using a laser or a conventional drill.

Art Unit: 2827

Although applicant's admitted prior art does not appear to teach literally the labels "reference plane," "signal layer," and, "core material," these labels appear to merely indicate intended use. Moreover, the statement of intended use does not result in a structural difference between the claimed product and the product of applicant's admitted prior art. Further, because the product of applicant's admitted prior art is inherently capable of being used for the intended use, the statement of intended use does not patentably distinguish the claimed product from the product of applicant's admitted prior art. Similarly, the manner in which a product operates is not germane to the issue of patentability of the product; Ex parte Wikdahl 10 USPQ 2d 1546, 1548 (BPAI 1989); Ex parte McCullough 7 USPQ 2d 1889, 1891 (BPAI 1988); In re Finsterwalder 168 USPQ 530 (CCPA 1971); In re Casey 152 USPQ 235, 238 (CCPA 1967). Also, claims directed to product must be distinguished from the prior art in terms of structure rather than function. In re Danley, 120 USPQ 528, 531 (CCPA 1959). "Apparatus claims cover what a device is, not what a device does." Hewlett-Packard Co. v. Bausch & Lomb Inc., 15 USPQ2d 1525, 1528 (Fed. Cir. 1990).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 2827

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 8 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over applicant's admitted prior art as applied to claims 1-7, 9, 10 and 12, and further in combination with Rostoker (5801432).

Applicant's admitted prior art does not appear to explicitly teach the following:

8. The sublamination material of claim 7, wherein the dielectric material is FR4.
11. The sublamination material of claim 10, wherein the dielectric material is BT.

Nonetheless, at column 41, line 24 to column 42, line 5, Rostoker teaches these limitations. Furthermore, it would have been obvious to combine the product of Rostoker with the product of applicant's admitted prior art because it would provide a dielectric material.

Applicant's remarks filed 7-14-2 have been fully considered and rendered moot by the rejections supra.

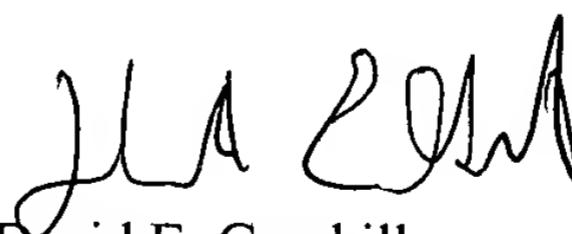
THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any telephone inquiry of a general nature or relating to the status (MPEP 203.08) of this application or proceeding should be directed to Group 2800 Customer Service whose telephone number is 703-306-3329.

Any telephone inquiry concerning this communication or earlier communications from the examiner should be directed to David E. Graybill at (703) 308-2947. Regular office hours: Monday through Friday, 8:30 a.m. to 6:00 p.m.

The fax phone number for group 2800 is 703/308-7722.



David E. Graybill
Primary Examiner
Art Unit 2827

D.G.
16-Oct-02

Application/Control Number: 09/752,658

Art Unit: 2827

Page 7